

CLAIMS

1. A remote controller which enables a terminal device to control a device through a network, comprising:

5 a first server operable to communicate with the terminal device through the network, and generate device control data for controlling the device based on a request from the terminal device; and

10 a second server operable to acquire and store a latest address of the device on the network by communicating with the device at predetermined time intervals, the second server receiving the device control data from the first server, generating first transmission data including the device control data, and transmitting the first transmission data to the device.

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2. The remote controller according to claim 1, wherein the first server comprises:

data storage operable to store control information that is information necessary to control an operation of the device;

20 display data generator operable to generate display data that allows the terminal device to display the control information; and

control data generator operable to generate the device control data in response to a request from the terminal device,

25 the second server comprises:

address storage operable to store an address of the device on the network;

30 address generator operable to generate an address of the device controlled according to the device control data with reference to the stored address and based on the device control data

received from the first server; and

transmission data generator operable to generate the first transmission data including the address of the device and the device control data to the device, and transmit the first
5 transmission data to the device, and

the device comprises:

section operable to extract the device control data from the first transmission data; and

section operable to control the operation of the
10 device based on the extracted data for device control.

3. The remote controller according to claim 1, wherein

the device comprises:

section operable to detect a status of a target to be
15 controlled in the device; and

section operable to generate second transmission data including status information that is information on the detected operating status, and transmit the second transmission data to the second server,

20 the second server comprises:

section operable to extract the status information from the second transmission data received from the device; and

section operable to generate third transmission data including the extracted status information, and transmit the third
25 transmission data to the first server, and

the first server comprises section operable to extract the status information from the third transmission data received from the second server, and generate the display data using the extracted status information.

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4. The remote controller according to claim 1, wherein
the device is a video recording and reproducing apparatus,
the device control data is information about programs, and is
timer recording data for allowing timer recording to be conducted
5 for a designated program at a designated time in accordance with the
request from the terminal.

5. The remote controller according to claim 1, wherein
the device is a temperature controlling apparatus,
10 the device control data is data for controlling temperature,
and is data for controlling temperature of the temperature
controlling apparatus.

6. The remote controller according to claim 1, wherein
15 functions into which a function of the first server and a function
of the second server are integrated are provided by three or more
servers.

7. The remote controller according to claim 1, wherein
20 functions into which a function of the first server and a function
of the second server are integrated are provided by one server.

8. A remote control method for enabling a terminal device
to control a device through a network, the method comprising:

25 acquiring and storing a latest address of the device on
the network by communicating with the device at predetermined time
intervals, and

 communicating with the terminal device through the
network, generating device control data for controlling the device
30 based on a request from the terminal device, generating first

transmission data including the device control data, and transmitting the first transmission data to the device.

9. The remote control method according to claim 8, comprising:

storing control information that is information necessary to control an operation of the device, and generating display data for allowing the terminal device to display the control information,

10 generating the device control data in response to a request from the terminal device, and generating an address of the device controlled by the device control data with reference to the stored address and based on the device control data,

15 generating the first transmission data including the address of the device and the device control data, and transmitting the first transmission data to the device, and

controlling the operation of the device based on the device control data included in the first transmission data.

20 10. The remote control method according to claim 8, further comprising detecting an operating status of the device, receiving the transmission data including status information that is information on the detected operating status of the device from the device, extracting the status information from the transmission data
25 thus received, and generating the display data using the extracted status information.

11. The remote control method according to claim 8, wherein the device is a video recording and reproducing apparatus, and the
30 device control data is information about programs.

12. The remote control method according to claim 8, wherein the device is a temperature controlling apparatus, and the device control data is information for designating temperature.

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13. A remote-controlled device controlled by the remote control method according to claim 8, wherein the device control data is information about programs.

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14. A remote-controlled device controlled by the remote control method according to claim 8, wherein the device control data is information for designating temperature.